Material Safety Data Sheet

May be used to comply with OSHA's Hazard Communication Standard, 29 CFR 1910.1200. Standard must be consulted for specific requirements.

U.S. Department of Labor
Occupational Safety and Health Administration
(Non-Mandatory Form)
Form Approved
OMB No. 1218-0072

IDENTITY (As Used on Label and List)	Note: Blank spaces are not permitted. If any item is not applicable, or no information is available, the space must be marked to indicate that.
#836-1 TARNISH GUARD	

Section I

Manufacturer's Name: Patclin Chemical Co., Inc.	Emergency Telephone Number: 914-476-7000/MFSA 313-644-5626/ Chemtrec-Day or Night-800-424-9300
Address (Number, Street, City, State, and ZIP Code): 66 Alexander Street, Yonkers, N.Y. 10701	Telephone Number for Information: 914-476-7000
	Date Prepared: 7-7-95
	Signature of Preparer (optional): Rubin M. Uperowsky

Section II — Hazardous Ingredients/Identity Information

Hazardous Components (Specific Chemical Identity; Common Name(s))	OSHA PEL	ACGIH TLV	Other Limits Recommended	% (optional)
Sodium Chromate	CAS #7775-11-3			10
Sodium Hydroxide	CAS #1310-73-2			7
Sodium Carbonate	CAS #497-19-8			15
Water	CAS #7732-18-5			90

Section III — Physical/Chemical Characteristics

Boiling Point	212°F	Specific Gravity (H_2O = 1)	1.154
Vapor Pressure (mm Hg.)	N/A	Melting Point	N/A
Vapor Density (AIR = 1)	N/A	Evaporation Rate (Butyl Acetate = 1)	N/A

Solubility in Water: Completely

Appearance and Odor: Yellow- odorless

Section IV — Fire and Explosion Hazard Data

Flash Point (Method Used)	Flammable Limits	LEL	UEL

Extinguishing Media

Special Fire Fighting Procedures: NOT APPLICABLE

Unusual Fire and Explosion Hazards

449302

PATCLIN
CHEMICAL CO., INC.

SUBJECT: TARNISH GUARD
Patclin #836-1
Patclin #837-2

INTRODUCTION:

PATCLIN #836-1 and PATCLIN #837-2 TARNISH GUARD is a new process specifically developed to prevent TARNISH from forming on GOLD, SILVER, BRASS, and IMITATION RHODIUM and will PROTECT it from DISCOLORATION due to OXIDATION. TARNISH GUARD is a hard durable finish applied with an ELECTROPLATING PROCESS and is ideally suited for applications in the JEWELRY, ELECTRONICS, and HOLLOW WARE INDUSTRIES where TARNISH is a problem. In many cases TARNISH GUARD can be used instead of LACQUER.

TARNISH GUARD is a TWO (2) STEP OPERATION. PATCLIN #836-1 and PATCLIN #837-2 is used at ROOM temperature. The FIRST STAGE is ELECTROLYTIC, and the SECOND STAGE is a SOAK SEALER.

DIRECTIONS FOR USE:

STAGE #1

(a) CONCENTRATION:	Use 1 part PATCLIN #836-1 to 2 parts of water.
TANK:	Tank with stainless steel anodes or stainless steel tank used as the anodes.
VOLTAGE:	4-6 Volts.
ELECTRODES:	Stainless Steel.
TIME OF IMMERSION:	1 minute.
TEMPERATURE:	Room.

(b) Water rinse — well — in an overflow tank.

STAGE #2

(a) CONCENTRATION:	1 Part PATCLIN #837-2 — to 2 parts of water.
TANK:	Mild steel, polyethylene or stainless steel.
TIME OF IMMERSION:	60 seconds.
TEMPERATURE:	Room — no current necessary.

(b) Water rinse and dry.

SEPARATE RINSE TANKS must be used for TARNISH GUARD. These rinses must **not be** CONTAMINATED with any other SOLUTION.

You can replenish the SOLUTION by ADDING small amounts of TARNISH GUARD CONCENTRATE to the various baths to compensate for dragout.

SALES OFFICE AND SHEET WORKERS, NEW YORK 10701 / (914) 423-7000